

Inventor(s): HIRAMATSU

Appln. No.: 09.

101,833

Series Code ↑

Serial No. ↑

Filed: July 17, 1998

Hon. Commissioner of Patents
Washington, D.C. 20231

Group Art Unit 1725

Examiner: Geoffrey S. Evans

Atty. Dkt. P 0255101 7012P-u

M#

Client Ref

Appln. Title: LASER MACHINING APPARATUS AND
METHOD FOR MANUFACTURING A
MULTILAYERED PRINTED WIRING
BOARD

Sir:

AMENDMENT

Date: February 28, 2002

This is a reply/amendment/letter in the above-identified application and includes the herewith attachment of same date and subject which is incorporated hereinto by reference and the signature below is treated as the signature to the attachment in absence of a signature thereto.

FEE REQUIREMENTS FOR CLAIMS AS AMENDED

1. Small Entity claim

A. ☒ NOT madeB. ☐ WithdrawnC. ☐ made herewithD. ☐ made previously

For B & C
See **Required**
Separate Paper
(Pat-256)

Claims remaining after amendment	Highest number previously paid for	Present Extra	Large/Small Entity	Additional Fee	Fee Code Lg/Sm
2. Total Effective Claims	33	**minus 33	0	x \$18/\$9 = + \$0	103/203
3. Independent Claims	15	***minus 15	0	x \$84/\$42 = + \$0	102/202
4. If amendment enters proper multiple dependent claim(s) into this application for first time (leave blank if this is a reissue application) add				+ \$280/\$140 = + \$0	104/204
5. Original due Date: February 28, 2002		<input type="checkbox"/> NONE			
6. Petition is hereby made to extend the original due date to cover the date this response is filed for which the requisite fee is attached		(1 mo) \$110/\$55 = (2 mos) \$400/\$200 = (3 mos) \$920/\$460 = (Usable only for ≤ 2mo.OA --- 4 mos) \$1,440/\$720= (Usable only for 30 day/1mo.OA --- 5 mos) \$1,960/\$980=	+ \$0		115/215 116/216 117/217 118/218 128/228
7. Enter any previous extension fee paid since above original due date and subtract		- \$0			
8.		Extension Fee Attached		+ \$0	
9. If Terminal Disclaimer attached, add Rule 20(d) official fee		+ \$110/\$55		+ \$0	148/248
10. If IDS attached requires Official Fee under Rule 97 (c), add		+ \$180		+ \$0	126
or if Rule 97(d) Request add		+ \$180		+ \$0	126
11. After-Final Request Fee per rules 129(a) and 17(r)		+ \$740/370		+ \$0	146/246
12. No. of additional inventions for examination per Rule 129(b).....		x \$740/370 ea		+ \$0	149/249
13. Request for Continued Examination (RCE)		+ \$740/370		+ \$0	1179/1279
14. Petition fee for				+ \$0	
15. TOTAL FEE ENCLOSED =				\$0	

16. *If the entry in this space is less than entry in next space, the "Present Extra" result is "0".

17. **If the "Highest number previously paid for" in this space is less than 20, write "20" in this space.

18. ***If the "Highest number previously paid for" in this space is less than 3, write "3" in this space.

Our Deposit Account No. 03-3975)

(Our Order No. 041226 0255101

C#

M#

CHARGE STATEMENT: The Commissioner is hereby authorized to charge any fee specifically authorized hereafter, or any missing or insufficient fee(s) filed, or asserted to be filed, or which should have been filed herewith or concerning any paper filed hereafter, and which may be required under Rules 16-18 (missing or insufficiencies only) now or hereafter relative to this application and the resulting Official Document under Rule 20, or credit any overpayment, to our Accounting/Order Nos. shown above, for which purpose a duplicate copy of this sheet is attached.

This CHARGE STATEMENT **does not authorize charge of the issue fee until/unless an issue fee transmittal sheet is filed.**

Query: Is appeal deadline now? If so, file Notice of Appeals separately.

Pillsbury Winthrop LLP
Intellectual Property Group

By Atty: Glenn J. Perry

Reg. No. 28458

1600 Tysons Boulevard

McLean, VA 22102

Tel: (703) 905-2000

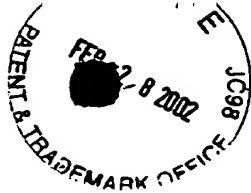
Sig: *Glenn J. Perry*

Fax: (703) 905-2500

Tel: (703) 905-2161

Atty/Sec: gjp/nlh

NOTE: File this cover sheet in duplicate with PTO receipt (PAT-103A) and attachments



#17/0 3/15/02
11

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re **PATENT APPLICATION** of

Confirmation No.: 1115

HIRAMATSU

Group Art Unit: 1725

Appln. No.: 09/101,833

Examiner: **Geoffrey S. Evans**

Filed: **July 17, 1998**

**FOR: LASER MACHINING APPARATUS, AND APPARATUS AND METHOD
FOR MANUFACTURING A MULTILAYERED PRINTED WIRING BOARD**

* * * * *

February 28, 2002

AMENDMENT UNDER 37 C.F.R. § 1.111

Hon. Commissioner of Patents
Washington, D.C. 20231

Sir:

In response to the Office Action dated November 30, 2001, please amend the above identified application as follows.

IN THE CLAIMS:

Please enter the following amended claims:

RECEIVED
MAR 04 2002
TC 1700

P1

6. (*Thrice Amended*) A multilayer printed wiring board manufacturing apparatus comprising a processing laser source, harmonic wave generating means for converting a laser beam oscillated from said processing laser source to a shortened wavelength beam of a second harmonic wave, wherein said harmonic wave generating means is a non-linear optical crystal which reflects the processing laser to the harmonic wave emitting side and gives thereto the function to transmitting harmonic wave, and a scanning head for deflecting a direction of the laser beam in X-Y directions or

D